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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,229	04/27/2006	John William Chapman	056159-5261	6003
	7590 12/09/200 VIS & BOCKIUS LLP	EXAMINER		
	LVANIA AVENUE N	STEADMAN, DAVID J		
WASHINGTO	N, DC 20004		ART UNIT	PAPER NUMBER
			1656	
			MAIL DATE	DELIVERY MODE
			12/09/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/539,229	CHAPMAN ET AL.	
Examiner	Art Unit	
David J. Steadman	1656	

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The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence add	ress
THE REPLY FILED <u>06 October 2009</u> FAILS TO PLACE THIS A		-	
The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Apperior Continued Examination (RCE) in compliance with 37 C periods:	the same day as filing a Notice of a replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	Appeal. To avoid abar t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire to Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(i) Extensions of time may be obtained under 37 CFR 1.136(a). The date	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE ().	g date of the final rejection FIRST REPLY WAS FIL	n. LED WITHIN TWO
have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount of hortened statutory period for reply origing than three months after the mailing date	of the fee. The appropria nally set in the final Offic te of the final rejection, ex	ate extension fee e action; or (2) as ven if timely filed,
 The Notice of Appeal was filed on <u>06 October 2009</u>. A bri the date of filing the Notice of Appeal (37 CFR 41.37(a)), a appeal. Since a Notice of Appeal has been filed, any reply AMENDMENTS 	or any extension thereof (37 CFR 4	1.37(e)), to avoid disn	nissal of the
3. The proposed amendment(s) filed after a final rejection, b (a) They raise new issues that would require further cor	nsideration and/or search (see NO		cause
 (b) They raise the issue of new matter (see NOTE belowance) (c) They are not deemed to place the application in beta appeal; and/or 	•	ducing or simplifying th	ne issues for
(d) ☐ They present additional claims without canceling a c NOTE: <u>See Continuation Sheet</u> . (See 37 CFR 1.1		ected claims.	
4. The amendments are not in compliance with 37 CFR 1.12 5. Applicant's reply has overcome the following rejection(s):		mpliant Amendment (I	PTOL-324).
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 		timely filed amendmer	t canceling the
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is prove The status of the claim(s) is (or will be) as follows:		l be entered and an ex	xplanation of
Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: <u>1,6,7,9,12 and 14-17</u> . Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
8. The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).			
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea and was not earlier presented. Se	al and/or appellant fails ee 37 CFR 41.33(d)(1)	s to provide a
10.	n of the status of the claims after er	ntry is below or attache	ed.
 The request for reconsideration has been considered but See Continuation Sheet. 	t does NOT place the application in	condition for allowand	ce because:
12. ☐ Note the attached Information <i>Disclosure Statement</i>(s). (13. ☐ Other:	PTO/SB/08) Paper No(s)		
	/David J. Steadman/ Primary Examiner, Art U	Init 1656	

Continuation of 3. NOTE: Applicant's amendment after final rejection, filed on 10/6/09, is acknowledged. However, the amendment has not been entered in view of the amendment to claim 1 and the amendment to add claim 19, which require further consideration and necessitate new rejections under 35 U.S.C. 112, first and second paragraphs. As amended, claim 1 recites, "the type III AFP...has increased ice recrystallization inhibitory activity as compared to glycosylated AFP". However, it is unclear as to whether or not the "glycosylated AFP" is limited to being glycosylated "type III AFP" as recited in line 7 of claim 1 or encompasses any glycosylated AFP, thus necessitating a new rejection under 35 U.S.C. 112, second paragraph. This lack of clarity necessitates a new rejection under 35 U.S.C. 112, first paragraph, because the specification provides only a single species of proteins that have increased ice crystallization inhibitory activity, i.e., SEQ ID NO:1 recombinantly produced in a pmt1 and/or pmt2 deficient S. cerevisiae. The specification fails to disclose any variants of SEQ ID NO:1 that have increased ice crystallization inhibitory activity as compared to ANY glycosylated AFP. Also, since all proteins of a sufficient length share a common function of eliciting an antibody, it is unclear from claim 19 as to whether or not the "functional equivalents" of "the type III HPLC-12 AFP" are intended to have "increased ice recrytallization inhibitory activity in comparison to glycosylated AFP". Also, as with claim 1, claim 19 recites "in comparison to glycosylated AFP", thus necessitating new rejections under 35 U.S.C. first and second paragraphs, for issues noted above.

Continuation of 11. does NOT place the application in condition for allowance because: The request for reconsideration in the reply filed on 10/6/09 has been fully considered, however, the amendment does not place the application in condition for allowance. The amendment to the claims filed on 10/6/09 has not been entered because the claims as amended require at least further consideration as noted above. See MPEP § 714.13. Applicant's arguments in the amendment filed on 10/6/09 have been fully considered. However, in view of the nonentry of the amendment, applicant's arguments are not found persuasive to overcome the outstanding rejection(s) as set forth in the Office action mailed on 5/6/09 for the reasons of record stated therein. In the interest of compact prosecution, it is noted that while the amendment filed on 10/6/09 would appear to obviate the objections to claim 9 and the rejection of claim 17 under 35 U.S.C. 112, second paragraph, the amendment would not appear to overcome the rejections under 35 U.S.C. 112, first paragraph, and the rejection under 35 U.S.C. 103(a). Regarding the rejection under 35 U.S.C. 112, first paragraph, the action by which the recited S. cerevisiae strain is deficient in pmt1 and/or pmt2 remains unlimited, while the specification and prior art of Ng discloses only a single method of rendering a S. cerevisiae deficient in pmt1 and/or pmt2, i.e., deletion of pmt1 and/or pmt2, which fails to describe or enable all strains deficient in pmt1 and/or pmt2 by any action. Regarding the rejection under 35 U.S.C. 103(a), contrary to the position taken in the Decalaration under 37 CFR 1.132 and applicant's arguments, one of ordinary skill in the art at the time of the invention, in view of the teachings of Ng, would have been motivated to modify the reference of Chapman to use the expression host of Gentzsch.